

## Andrew Schechtman-Rook

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<https://github.com/AndrewRook>

### EXPERIENCE

#### Director, Data Science

2023-Present

Capital One

- Designed and built a package to streamline core business metrics SQL calculations, used by over 50 analysts for critical reporting needs.
- Owned the design, implementation, and upkeep of the DS Technical Interview, a key interview given to every data science candidate in the US.

#### Senior Manager, Data Science

2018-2023

Capital One

- Developed the longest-lived, most successful internal data science tool in the company, used in production models by dozens of data scientists across lines of business.
- Guided ongoing development of the core credit card valuations model scoring platform, delivering regular releases of new and updated models while improving the robustness and maintainability of platform infrastructure.
- Led technical development of model monitoring tools, mentoring three junior data scientists to deliver a maintainable package on time and to spec.
- Deployed the first cloud-based credit card underwriting model in the company via a dockerized Python API, with an estimated incremental value of \$35MM per year.

#### Manager, Data Science

2016-2018

Capital One

- Built a Python library to facilitate the creation of robust, production-ready data analysis pipelines, saving hundreds of hours of R&D effort across multiple production models.
- Led development of a prototype automated machine learning model deployment framework for cloud-based applications, influencing the development direction for the company-wide credit card application processing platform.

#### Principal Data Scientist

2014-2016

Capital One Labs

- Implemented a novel approach to deliver internal technical trainings, providing over 5000 hours of classes with no instructors.
- Programmed and deployed an interactive course completion dashboard using Flask and dc.js to provide progress reports to individual students as well as company leadership.

### TECHNICAL SKILLS

**Programming:** Python (numpy, scipy, pandas, sklearn, xgboost, matplotlib), shell scripting

**Databases, Orchestration, Web Design:** Flask, MySQL/PostgreSQL, Prefect, Snowflake

**Cloud Computing/Devops:** AWS, Docker, CircleCI, Jenkins

**Operating Systems:** Linux, Mac OSX

**Data Analysis:** Parallel and distributed computing, machine learning, nonlinear optimization

### EDUCATION

PhD, Astronomy, University of Wisconsin-Madison

December 2013

MS, Astronomy, University of Wisconsin-Madison

June 2009

BS, Astronomy, Case Western Reserve University

May 2007